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| APPLICATION NO.  | FILING DATE      | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO.        |  |
|--|------------------|----------------------|-------------------------|-------------------------|--|
| 10/619,489   | 07/16/2003       | Minoru Igarashi      | 04208.0183              | 8855                    |  |
| 75   | 90 07/27/2004    |                      | EXAM                    | INER                    |  |
|  | derson, Farabow, | LE, THANH TAM T      |                         |                         |  |
| Garrett & Dunner, L.L.P.<br>1300 I Street, N.W.<br>Washington, DC 20005-3315 |                  |                      | ART UNIT                | PAPER NUMBER            |  |
|  |                  |                      | 2839                    |                         |  |
|  |                  |                      | DATE MAILED: 07/27/2004 | DATE MAILED: 07/27/2004 |  |

Please find below and/or attached an Office communication concerning this application or proceeding.

| Office Action Summary   |  | Application No.  | Applicant(s)  |  |  |  |
|---|--|--|---|--|--|--|
|   |  | 10/619,489   | IGARASHI ET AL.   |  |  |  |
|   |  | Examiner   | Art Unit  |  |  |  |
|   |  | Thanh-Tam T. Le  | 2839  |  |  |  |
| The MAILING DATE of<br>Period for Reply   | this communication app   | ears on the cover sheet with the o   | correspondence address  |  |  |  |
| THE MAILING DATE OF THI  - Extensions of time may be available un after SIX (6) MONTHS from the mailing  - If the period for reply specified above is  - If NO period for reply is specified above  - Failure to reply within the set or extended | S COMMUNICATION. der the provisions of 37 CFR 1.13 date of this communication. less than thirty (30) days, a reply the maximum statutory period w ded period for reply will, by statute, than three months after the mailing       | IS SET TO EXPIRE 3 MONTH  (36(a). In no event, however, may a reply be tire  (4) within the statutory minimum of thirty (30) day  (5) ill apply and will expire SIX (6) MONTHS from  (6) cause the application to become ABANDONE  (6) date of this communication, even if timely file | nely filed /s will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133). |  |  |  |
| Status  |  |  |   |  |  |  |
| 1) Responsive to commun   | ication(s) filed on <u>16 Ju</u>   | <u>ıly 2003</u> .  |   |  |  |  |
| 2a) This action is FINAL.   | This action is <b>FINAL</b> . 2b)⊠ This action is non-final.   |  |   |  |  |  |
| · — · · ·   | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.                  |  |   |  |  |  |
| Disposition of Claims   |  |  |   |  |  |  |
| 4)  | s) is/are withdrav<br>llowed.<br>cted.<br>bjected to.  |  | · .   |  |  |  |
| 9)☐ The specification is obje   | cted to by the Examine   | r.   |   |  |  |  |
| 10)⊠ The drawing(s) filed on  | 0)⊠ The drawing(s) filed on <u>16 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.   |  |   |  |  |  |
| • • • •   | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |  |   |  |  |  |
| ,   | Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. |  |   |  |  |  |
| Priority under 35 U.S.C. § 119  |  |  |   |  |  |  |
| a) ⊠ All b) □ Some * c) □  1. ⊠ Certified copies of  2. □ Certified copies of  3. □ Copies of the certified application from the  | None of:  If the priority documents  If the priority documents  If the priority documents  Iffied copies of the prior  Ihe International Bureau  | s have been received in Applicat<br>fity documents have been receiv  | ion No<br>ed in this National Stage   |  |  |  |
|   |  |  |   |  |  |  |
| Attachment(s)   |  | 🗖  |   |  |  |  |
| <ol> <li>Notice of References Cited (PTO-8</li> <li>Notice of Draftsperson's Patent Draftsperson's Patent Draftsperson's Patent Oracle</li> <li>Information Disclosure Statement(spaper No(s)/Mail Date 7/16/03.</li> </ol>                       | wing Review (PTO-948)  | 4)  Interview Summary<br>Paper No(s)/Mail D<br>5)  Notice of Informal I<br>6)  Other:  |   |  |  |  |

### **DETAILED ACTION**

## Claim Objections

1. Claims 2-8 are objected to because of the following informalities:

Claim 2, line 3; claim 5, line 2 and claim 6, line 2, "said portion" lacks an antecedent basis.

Claim 3, lines 1 and 2, "at least one of said metallic holding fixture" lacks an antecedent basis.

Claim 5, line 4; claim 6, line 4; claim 7, line 3 and claim 8, line 3, "said base" lacks an antecedent basis.

Appropriate correction is required.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Chan et al. (5,626,482).

Chan et al., figures 1 and 6-7, disclose a connector for connecting circuit boards with each other, comprising:

Art Unit: 2839

 a first connector section (12) disposed on a first circuit board (24) and having contact terminals (44) electrically connected to electro-conductive layer (48)
 of the first circuit board; and

 a second connector section (14) disposed on a second circuit board (34) and having terminals (42) electrically connected to electro-conductive layer (50) of the second circuit board;

wherein when the first connector section is coupled to the second connector section, metallic engaging portions (82) provided in the first connector section are engaged with metallic portions (88) being engaged having the elasticity provided in the second connector section to hole the first connector section on the second connector section.

Regarding claim 2, figure 6, the engaging portions in the first and second connector sections are nibs (98) and projections (100) of metallic holding fixture, respectively.

Regarding claim 3, the metallic holding fixture is formed in a thin sheet-like form separately from a base (26) for supporting the contact terminals in the second connector section.

Regarding claim 4, the metallic holding fixture having legs (90) fixed to the second printed circuit board (column 5, lines 8-21).

Regarding claims 5 and 6, figure 6, a recess (92) is formed for allowing the portions being engaged in the second connector section to advance/retract at a base of the second connector.

Application/Control Number: 10/619,489

Art Unit: 2839

Regarding claims 7 and 8, the engaging portions of the first connector section are embedded in one piece and fixed in a base (36) of the first connector section.

### Conclusion

- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Tam T. Le whose telephone number is 571-272-2094. The examiner can normally be reached on 7:30-5:00.
- 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- 6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TL 07/19/04.

T. Le

Page 4